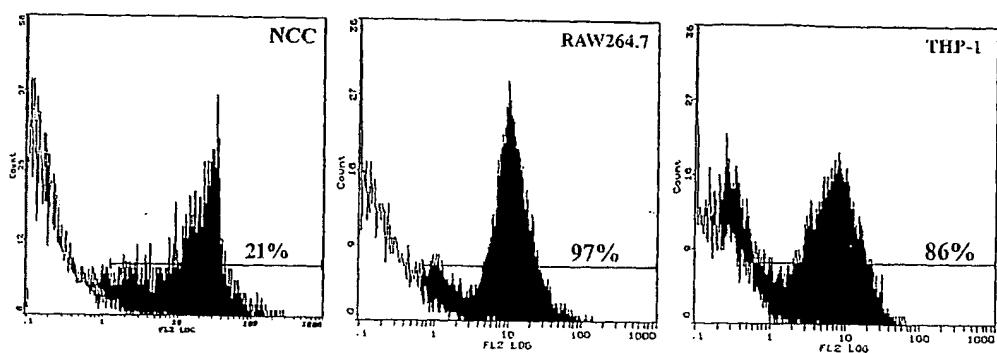
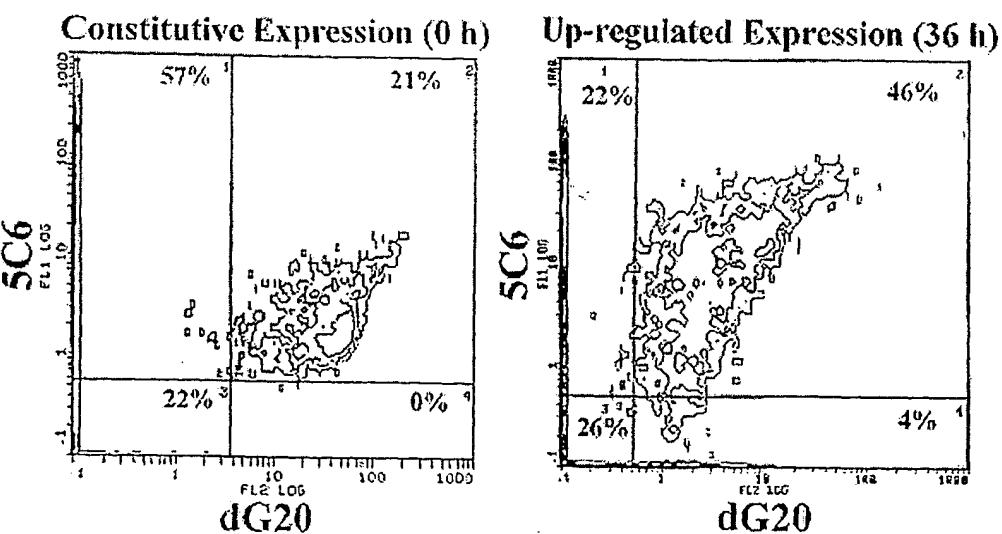


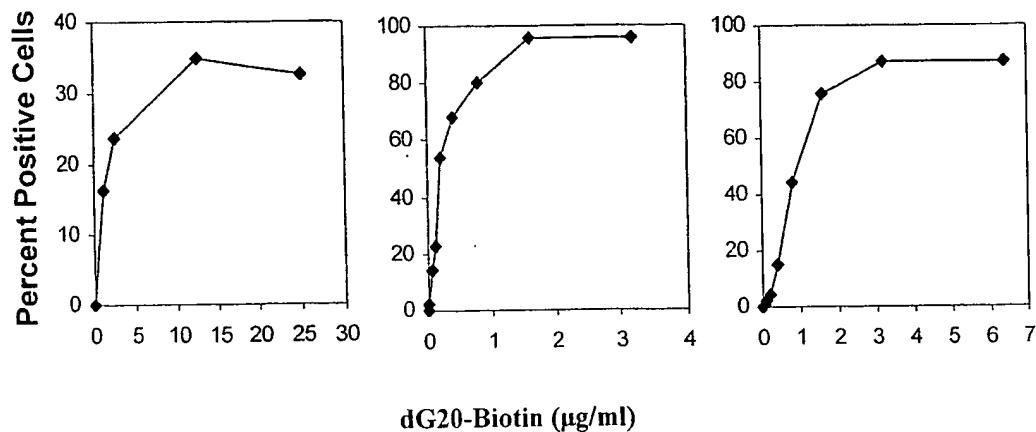
## Figures 1A - 1B

A

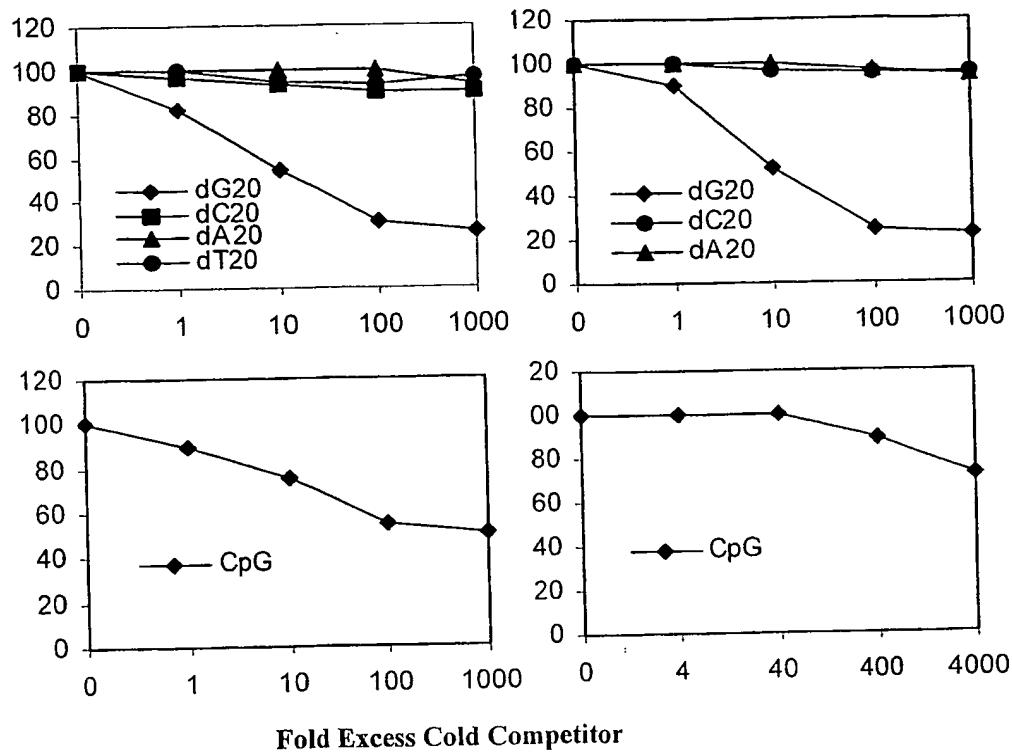


B

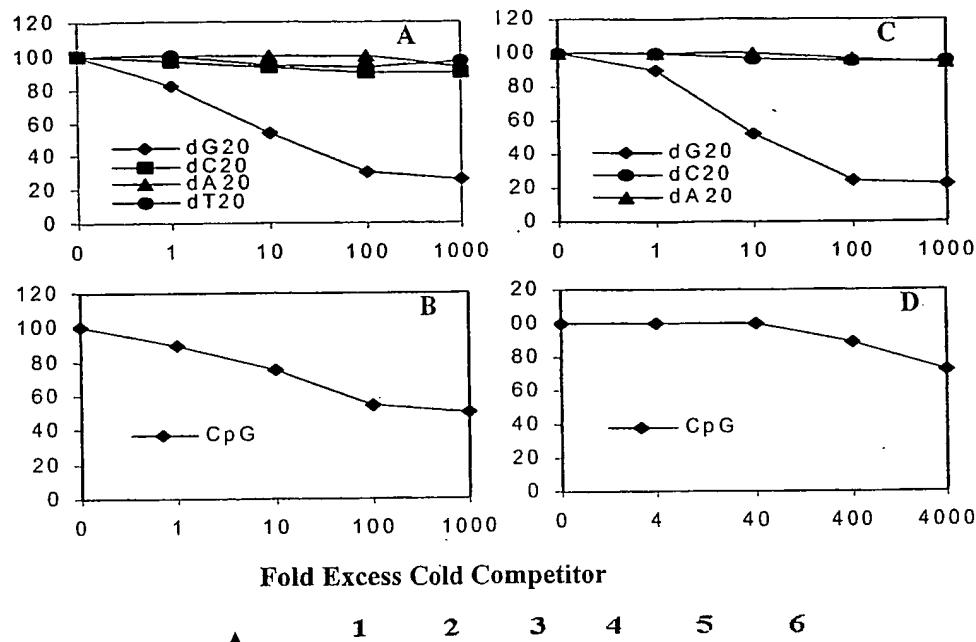


**Figure 2**

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**Figures 3A - 3D****BEST AVAILABLE COPY**

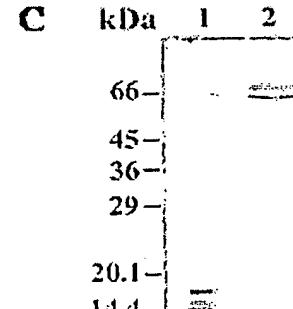
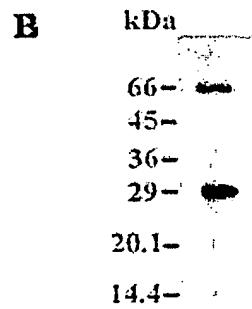
### Figures 4A - 4C



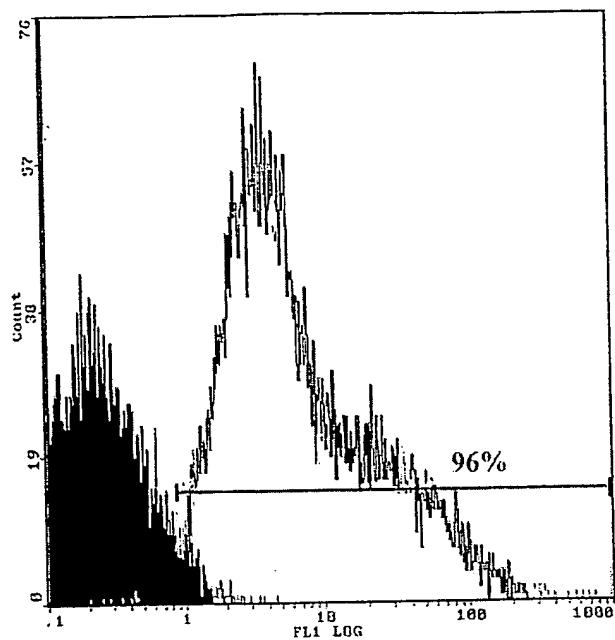
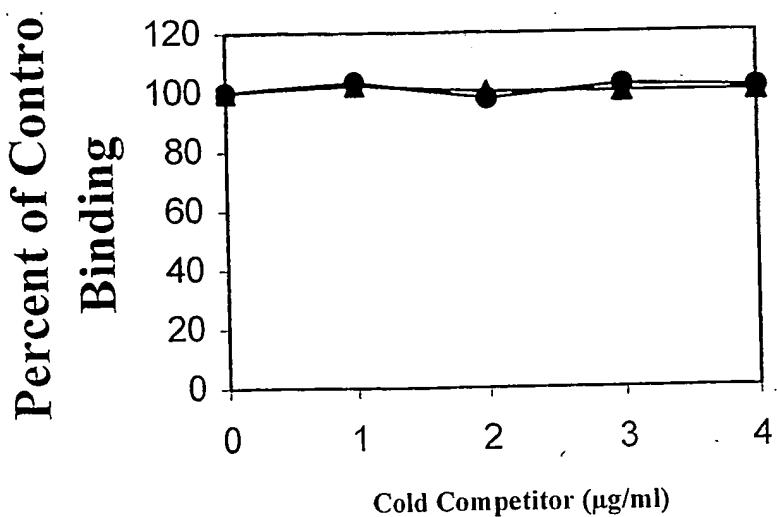
**A**      1      2      3      4      5      6

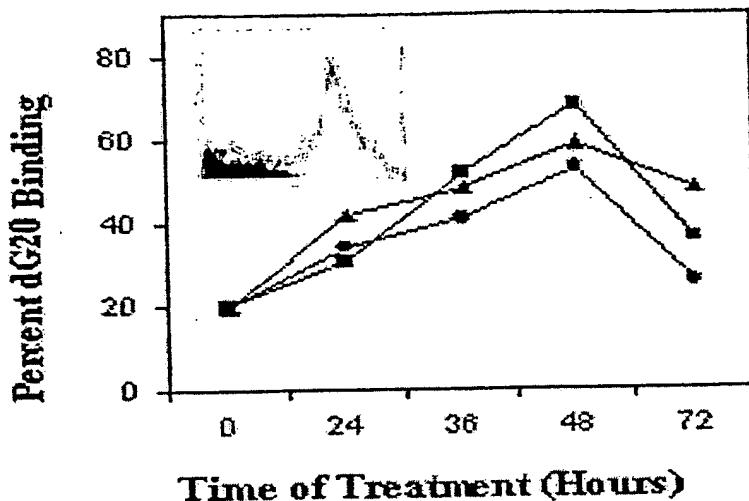
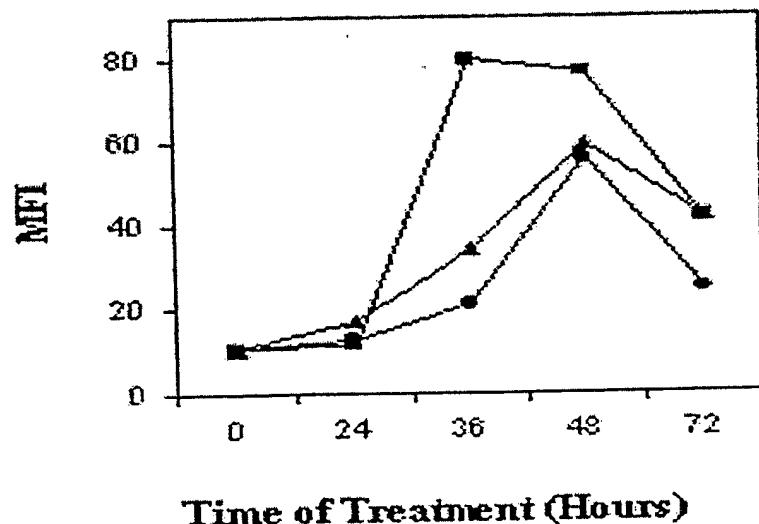
66  
45  
36  
29

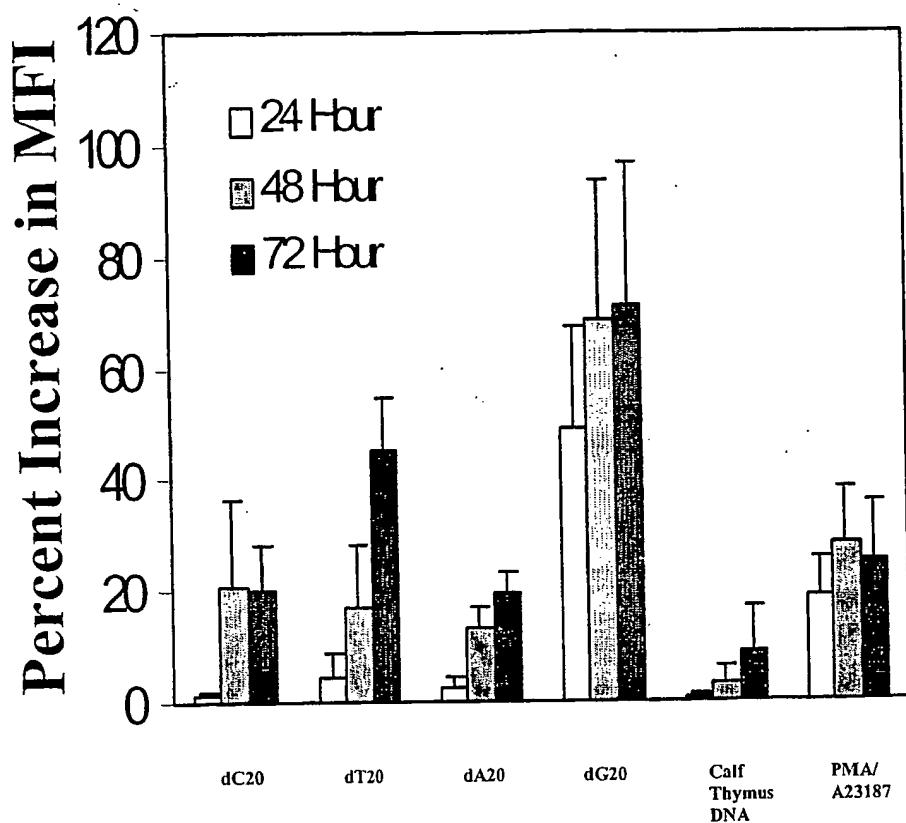
20.1  
14.2



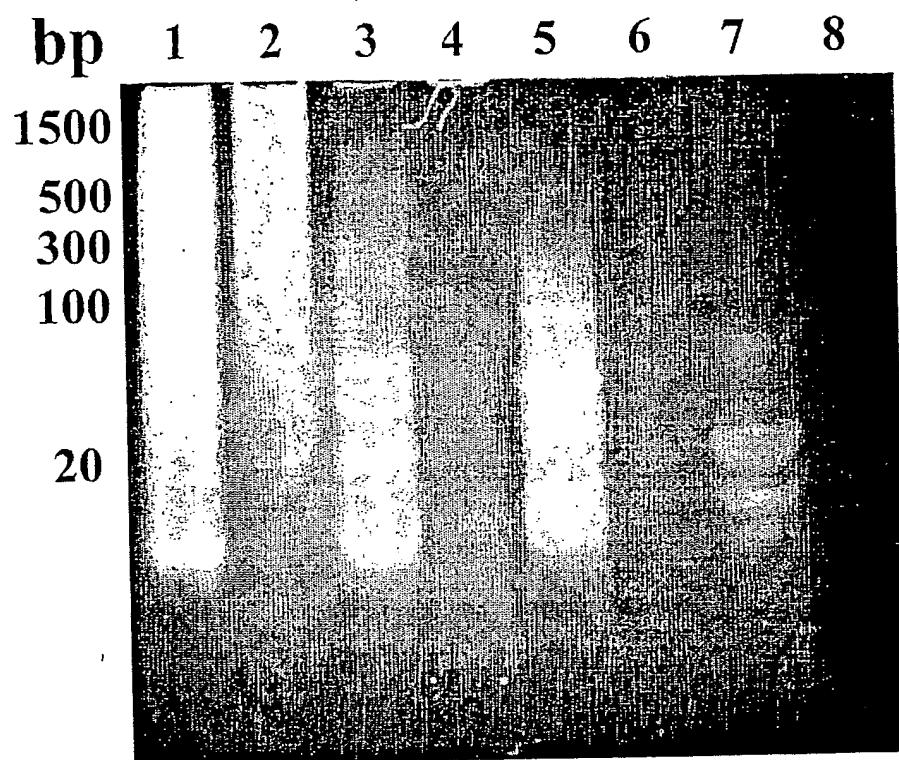
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**Figures 5A - 5B****A****B**

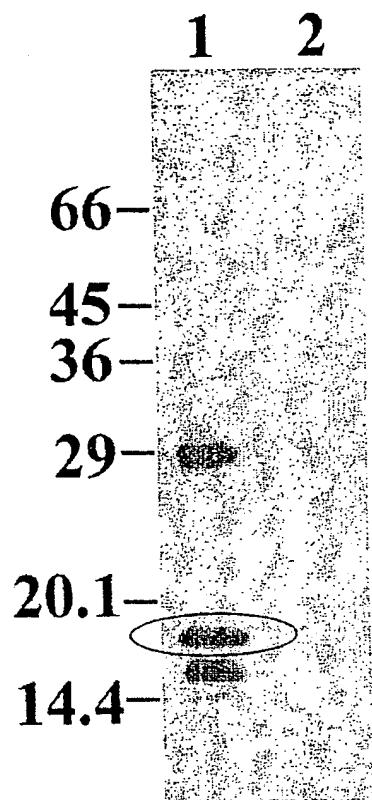
**Figure 6****A****B**

**Figure 7**

**Figure 8**



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**Figure 9**

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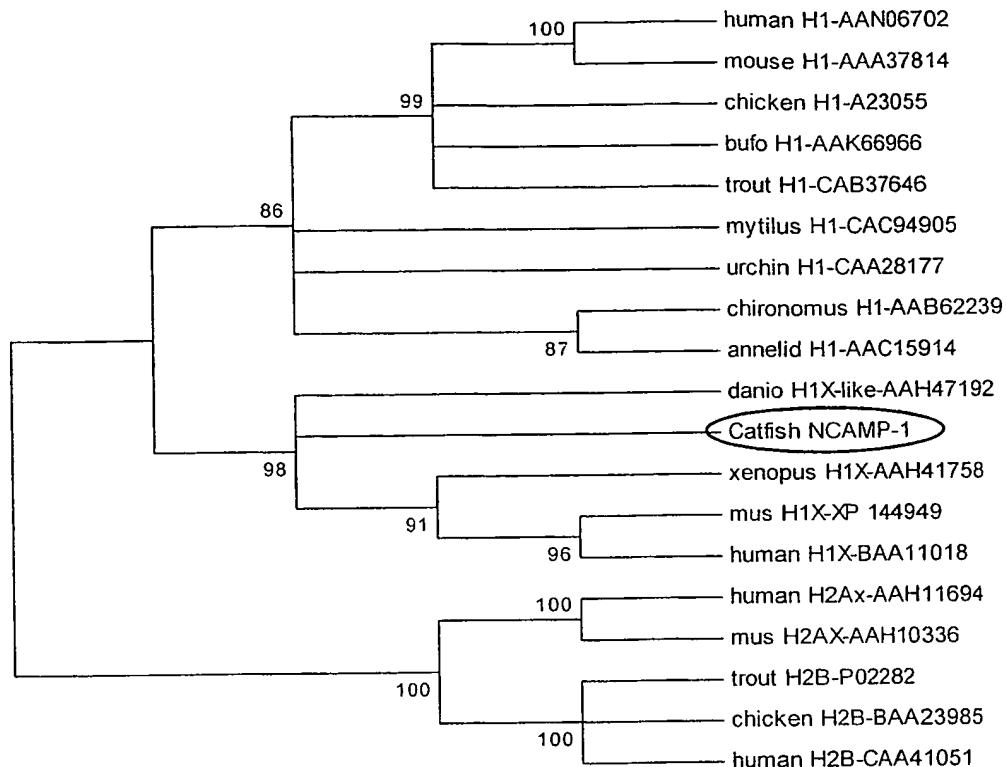
## Figure 10

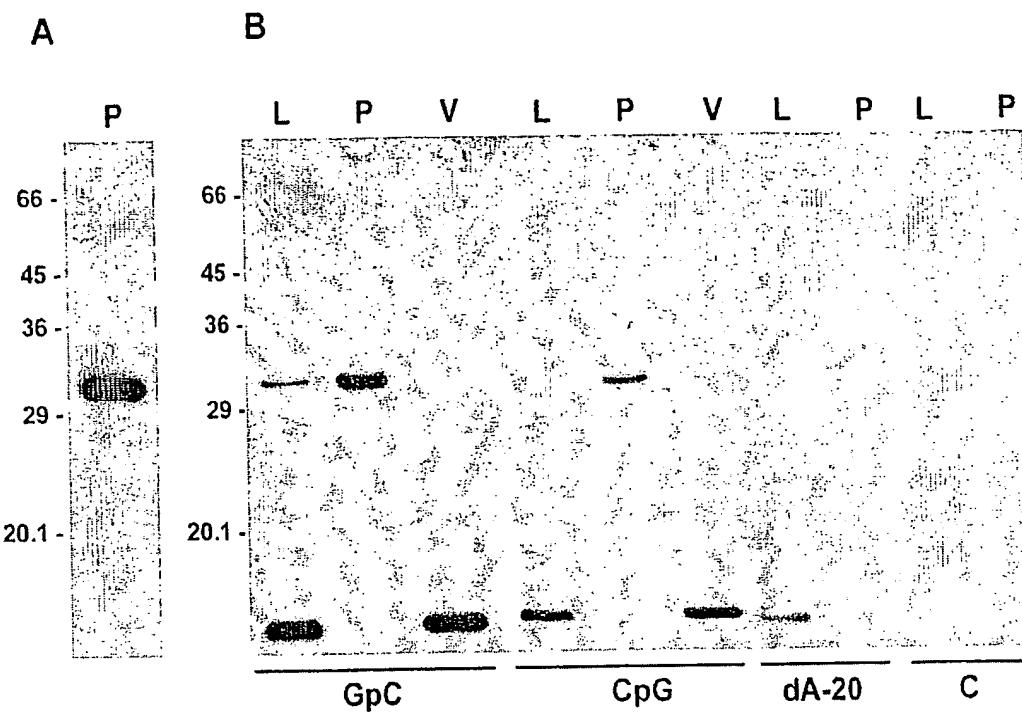
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	M S A Q A E E T A P E A A A A P V	16
51	ACCATGTCTGCTCAGGCTGAGGAAACTGCACCCAGAAGCAGCAGCACCGT	
	Q P S Q P A A K K K G P A S K A	32
101	ACAACCATCACACCAGCGGCCAAAAGAAGGGACCCGCCAGTAAGCAA	
	K P A S A E K K N K K K K G K G P	49
151	AGCCTGCCTCTGCAGAAAAAGAACAAAAGAAGAAAGGGAAAGGGCCC	
	G K Y S Q L V I N A I Q T L G E R	66
201	GGAAAGTACAGCCAGCTGGTGATCAATGCTATCCAAACGCTGGGAGAGAG	
	N G S S L F K I Y N E A K K V N	82
251	AAACGGCTCGTCTCTTTAAGATCTACAACGAGGCAGAACAGTGA	
	W F D Q Q H G R V Y L R Y S I R A	99
301	GGTTTGACCAGCAGCACGGCGCGTGTACCTCCGCTACTCCATCCGCG	
	L L Q N D T L V Q V K G L G A N G	116
351	CTGCTGCAGAACGACACGCTCGTGCAGGTGAAGGGCTGGCGCCAACGG	
	S F K L N K K F I P R T K K S	132
401	CTCCTTCAAGCTCAACAAAAAGAACGTTCATCCCCAGAACCAAGAACAGCT	
	S V K P R K T A K P T K K P A K K	149
451	CTGTAAAGCCGAGAACAGACTGCGAACCGACCAAAAAGCCAGCCAAAAAA	
	A A K K K R V S G V K K A T P P	166
501	GCAGCGAACAGAACAGAAAAGGGTCAGCGCGTGAAGAACAGCGACTCCCC	
	P E K T S K P K K A D K S P A V	182
551	CCCAGAGAAAACCTCCAAACCCAAGAACGGATAAAAGTCCAGCCGTCT	
	S A K K A S K P K K A K Q T K K T	199
601	CTGCCAACAGAGCGAGCAAGCCCAAGAACGCTAACAGACAAAAAGACT	
	A K K T *	203
651	GCTAAGAACAGCTAAACGTTTATATTCTGCATGCTTGTGCATTAAGCA	
701	TTGCACTGCGGGTAAACTGCACCGCTTCTGATCGCAGTTCTTAAGTAGG	
751	ATATGCACAGTGTAAACCAAGTGTGCAAGTCACTCTGGTCTCAATGTTT	
801	TACTGATGTAACCACATGTAATAACTGTACAAAGAACAGAAACATCACT	
851	TTTGTAAACGTCTGCTTGTATTATTTCTTCTACTAGTTAGCTAAAAT	
901	AACTGCTTATGGCTCTTTAA <u>AT</u> <u>AAA</u> ATGATAAAAG <u>AAAAAAAAAA</u>	
951	<u>AAAAAA</u>	

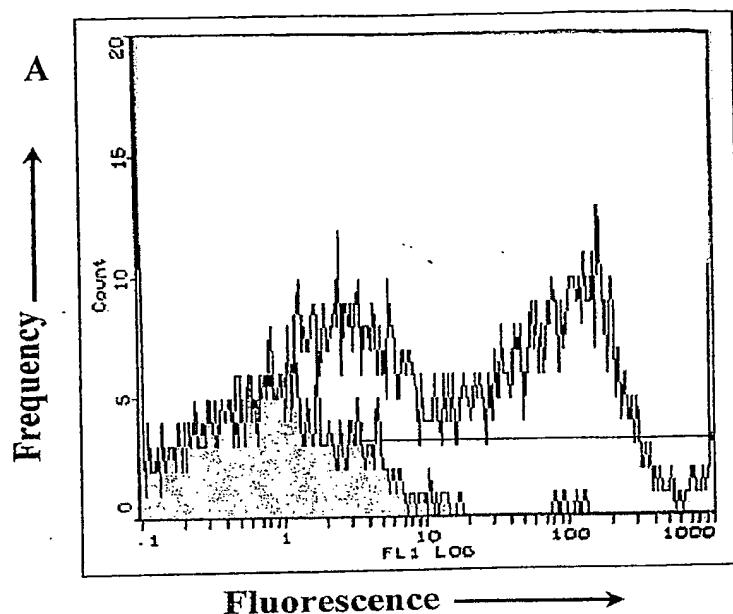
**Figure 11**

Catfish NCAMP-1	:	MSAQAEETAAPEAAYVQPSQP	-----AKKKGPASKTPASAEEKKKKKKKKGGCGFGRYSCKVINAQITLGEGNG	: 68
Danio H1X-like-AAH47192	:	-----MEAVVEEAAAPAPAP-----	-----AEKKAKPAVESPACK-----	: 59
Xenopus H1X-AAH41758	:	-----MALELEENLHSTEEDEEEEEE	-----DEMERSSTRNKGGAASSGGNKKKK-----	: 73
Mus H1X XP 144949	:	-----MSVLEELAALPPSADG-----	-----TARKTAKAGSSAAPTOPKERKI-----	: 63
human H1X-BAA11018	:	-----MSVLEELAALPPVTAEG-----	-----WAKKVTKAGSSAALPSKKRNSKKRKNQEGKSYOLV-----	: 64
Catfish NCAMP-1	:	SSLFEKLYNEAKKVNWEDOOGHRVYRYSIRALVNDTLQVKG	[GANGSEKUNKKKIPRTKKSVPKPTAKPTKKPAK]	: 148
Danio H1X-like-AAH47192	:	SSLFEKLYNEAKKVSWEDEKNGRMYLASIRALVNDTLQVKG	[GANGSEKUNKKKLEKKPKKK-AASKKATRKTEKPTSK]	: 138
Xenopus H1X-AAH41758	:	SSLAKLYNEAKKVSWEDEONGRTYLKSIKALVNDTLQVKG	[GANGSEKUNKKLEGGLPDKPPAKBSSSSSNKK]	: 153
Mus H1X XP 144949	:	SSILARIYAEEARKVNAWEDOONGRTYLYSIRALVNDTLQVKG	[GANGSEKUNKKLEGGERR-GASAASSSPAKAR--]	: 140
human H1X-BAA11018	:	SSIAKLYTEAKVWPWEDOONGRTYLYSIRALVNDTLQVKG	[GANGSEKUNKKLEGGERRGAAPAATAAPATAHKAA]	: 144
Catfish NCAMP-1	:	KAAK-----KKRVRSGVKRATPPPERTSKPK-----	[KADKSPAVSAKASKPKRAKOTIATKKT-]	: 203
Danio H1X-like-AAH47192	:	KAVT-----KRSAAKSANSKSPVKKKTTKTT-----	[SVKKAATAKPKKTTKSKRKAANAKTKSK-----]	: 192
Xenopus H1X-AAH41758	:	QQQ-----GPSSSPSKSHKPKKAKA-----	[KRMKGGAKPSVRIKPKSKKA]	: 217
Mus H1X XP 144949	:	-----TAAADRTPARPO-PERRAHHS-----	[KKAAMIAASAKKVKAAPKPSVPIVVKGRK-]	: 188
human H1X-BAA11018	:	KRKAAPGAAGGSRADDKKKPARGQKPEQRSHEKAGAKKDKGGKAKKTDAGGGKVTKPARKPSVPAVKGRK-	: 213	

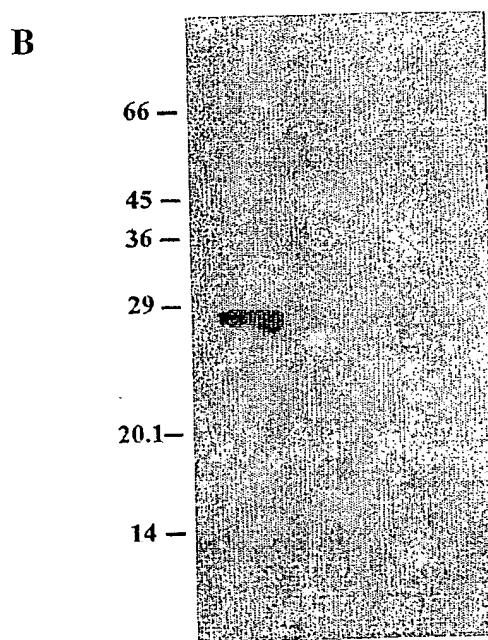
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**Figure 12**

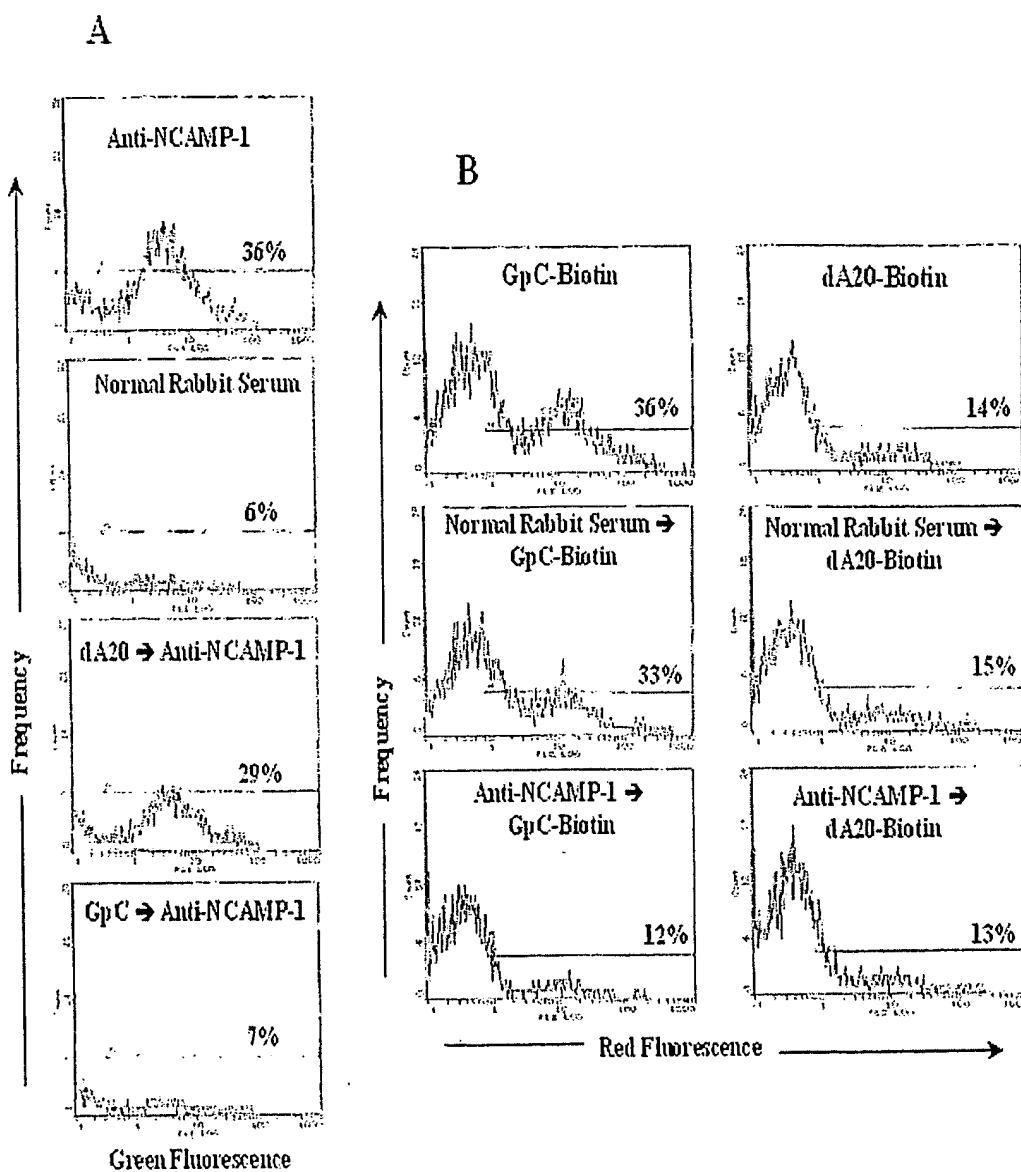
**Figures 13A - 13B****BEST AVAILABLE COPY**

**Figures 14A - 14B**

1      2      3



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**Figures 15A - 15B****BEST AVAILABLE COPY**

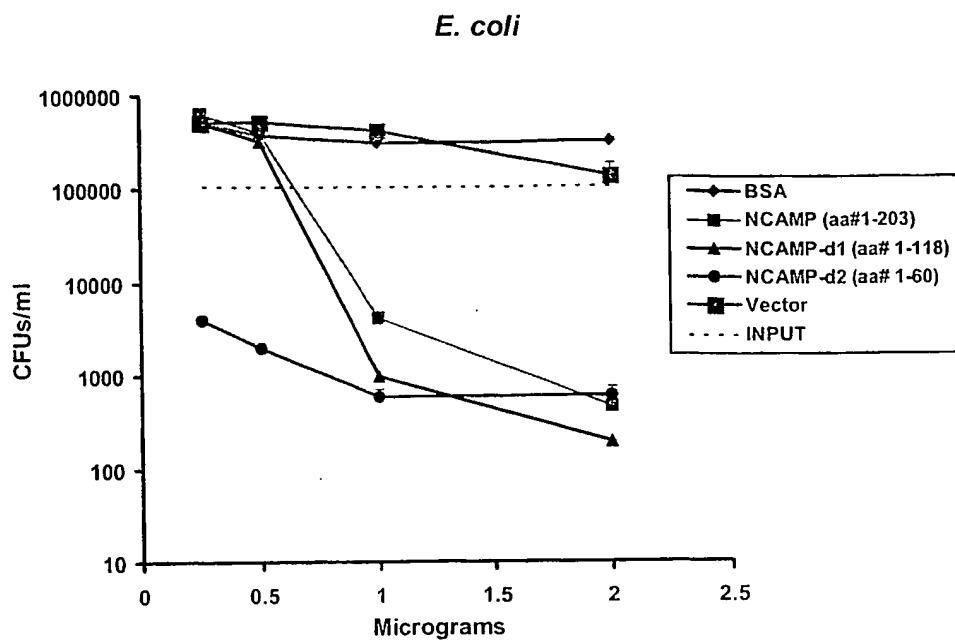
## FIGURE 16

NCAMP-1	PEAAAPVQPSQPAAKKKGPASKAKPASAEEKKNNKKAKGKGPG
H1-Mus	-----SETAPAEKPKAPAKAE-----
H1-Human	---KLNKKAAASGEAKPKAKAKSPKKAKA--
H1-Trout	-KAVAAKKSPKKAKKPAT--

C-Terminal residues :

NCAMP-1 H2A CF	-TAKPTKKPAKKAACKKKRVS <del>GVKKATPPPEKTSKPKKADKSPAVSAKKASKPKKAKQT</del> --KGRGKQGGKVRAKAKTRS--
H2B Trout	-----PDPAKTAPKKGSKKAVTKXA--
H2B Bass1	-----PEPAKSABKKGSKKAVT-
H2B Bass2	-----PDPAPKTAPKKGSKKAVTKTAG
H1-Trout	-----AEVAPAPAAAAPAKAPKKAAAKPKK-----
H1-Trout	---AEVAPAPAAAAPAKAPKKAAAKPKK-----

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**Figures 17A - 17B****A****B**